#### RICHARD C. SLADE & ASSOCIATES LLC



CONSULTING GROUNDWATER GEOLOGISTS

SUMMARY OF OPERATIONS
FOR THE DESTRUCTION OF FORMER WATER-SUPPLY WELL NO. 1
at the
FORMER BOEING REALTY CORPORATION
C-6 FACILITY
19503 SOUTH NORMANDIE AVENUE
LOS ANGELES, CALIFORNIA

# Prepared for:

Kennedy/Jenks Consultants
Irvine, California
and
Boeing Realty Corporation
Long Beach, California

### Prepared by:

Richard C. Slade & Associates LLC Consulting Groundwater Geologists North Hollywood, California

> RCS Job No. S2057 July 2001

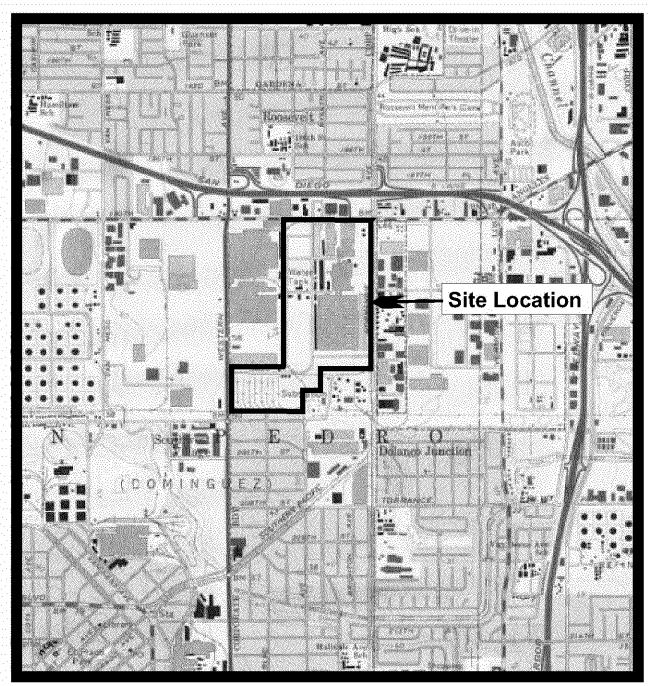


### INTRODUCTION

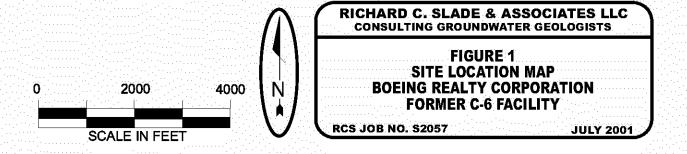
This Summary of Operations report has been prepared to document procedures and methods used in the destruction of a former water-supply well at the Former Boeing Realty Corporation (BRC) C-6 Facility. This facility, as shown on Figure 1 -Site Location Map- is located on the southwest corner of the intersection of 190th Street and Normandie Avenue, in the City of Los Angeles, California. Figure 2 -Well Location Map- illustrates the approximate locations of the recently destroyed Well No. 1 and of two other water-supply wells at the facility that were previously destroyed in 1998.

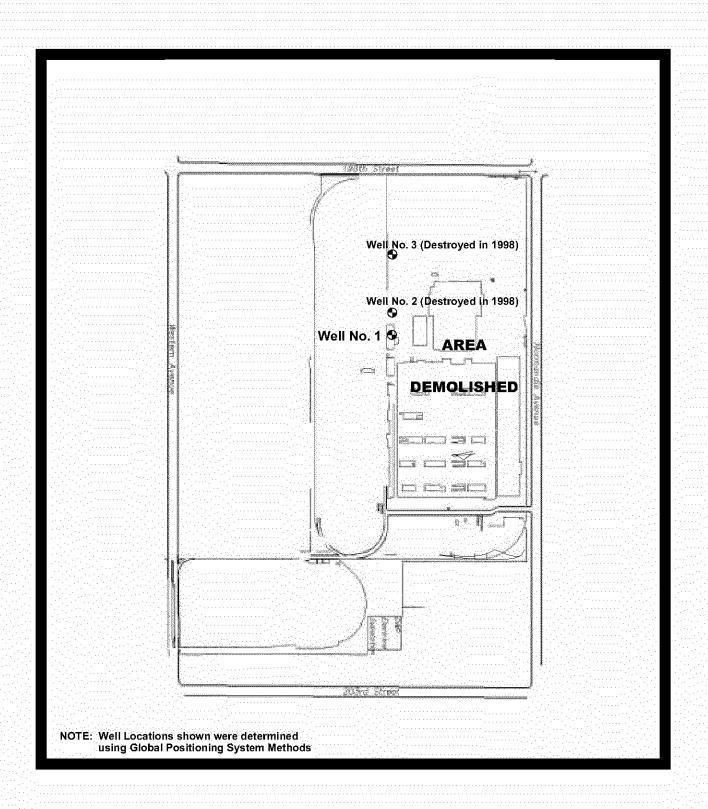
Beylik Drilling Company (Beylik) of La Habra, California was the contractor that performed the destruction work for Well No. 1. Richard C. Slade & Associates LLC, Consulting Groundwater Geologists (RCS), prepared a Workplan (dated February 2001), for destruction of the well and field personnel were present to observe the well destruction work during specific tasks, as herein described. RCS personnel also maintained liaison with personnel from Beylik and Kennedy/Jenks Consultants (KJC; primarily Mr. Robert Logan) to provide in-progress information during well destruction activities. Further, Los Angeles County Department of Health Services (LACDHS) personnel (primarily Mr. Michael Lui) were also notified of ongoing well destruction activities by RCS and Beylik.

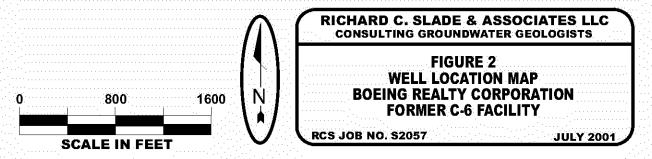
Destruction procedures were performed by Beylik based on the RCS-prepared Workplan dated February 2001 and were conducted in accordance with current California Department of Water Resources (DWR) well standards as outlined in DWR Bulletin 74-81 and its Draft supplement Bulletin 74-90. Prior to commencement of well destruction activities, a LACDHS Well Destruction Permit was obtained by Beylik. A copy of this well destruction permit is included in Appendix 1.



Base Map: USGS 7.5-minute Torrance Topographic Quadrangle









#### **BACKGROUND INFORMATION**

Available historic information reveals that three water-supply wells (Nos. 1, 2, and 3) were constructed at the subject site in 1942. According to Los Angeles County Department of Public Works, Flood Control District (LACFCD) data, the three wells were designated as follows:

Owner Well Number	LACFCD Well Number	U.S. Geological Survey Number	California Department of Water Resources Number
	794A	T4S/R14W-1H1	T4S/R14W-1F1
2	794B	T4S/R14W-1H2	T4S/R14W-1F2
<b>3</b>	794Č	T4S/R14W-1H3	T4S/R14W-1F3

Original drillers' logs reveal that Well Nos. 1, 2 and 3 were drilled for the Aluminum Corporation of America (ALCOA) between July and September 1942. Well Nos. 2 and 3 were destroyed in June 1998 and a report documenting destruction of these wells, as prepared by our firm, was previously submitted to BRC in September 1998. At that time, although the status of Well No. 1 was not known, its general location was preliminarily identified by RCS personnel, using information on the driller's log, as being beneath an existing building.

During subsequent demolition activities of buildings at the site in the later part of 2000, Well No. 1 was discovered beneath the suspected building and examined by KJC personnel. The depth to the bottom of the well was measured by KJC personnel and reported as being 560 ft below ground surface (bgs). As a result of the field discovery of Well No. 1, preparation of the Workplan for destruction of the well was initiated by BRC.



Well No. 1 was drilled by the Roscoe Moss Company of Los Angeles using the cable tool drilling method in October 1942. The following table shows the construction parameters for the well as documented in the original driller's log.

Depth (ft, bgs)	Diameter of Steel Casing (inches)	Perforation Intervals (ft, bgs)
600	14	473 to 514

The perforations in the well were documented as being 5/16 inches in width and having 8 perforations per row. A copy of the original driller's log for the well is provided in Appendix 2.

### WELL DESTRUCTION PROCEDURES

The following work items were conducted during destruction of Well No. 1.

#### 1. Preparation of Water in Casing for Video Surveying

On April 5, 2001, the water in the well casing was prepared for video surveying by emplacing a flocculant to remove and/or settle suspended material in the fluid column; the material used was the polymer flocculant Barofloc<sup>TM</sup>. This inert mixture was poured directly down the well from ground surface; this was followed by similarly emplacing approximately 500 gallons of water. Following flocculant and water application, the well was allowed to set for a period of approximately 24 hours prior to conducting the video survey.



## 2. Water Well Video Survey

Following preparation of the fluid column in the well, a video survey was performed on April 6, 2001. This video survey used a combination vertical/sidescan color camera to examine and document, on VHS tape, the field of view of the blank and perforated sections of the well casing during the vertical descent of the camera into the well. The sidescan option was used to examine, at selected depths and where deemed necessary, the physical condition of the casing and/or perforations.

The video survey was performed by Water Well Developers, Inc. of Anaheim, California. An RCS geologist was present to observe and record the results of the video survey. A record of those observations is included in Appendix 3. In addition, Beylik and KJC personnel were also present to observe the video survey of the well.

Observation of the video survey for Well No. 1 revealed that the static water surface in the well on April 6, 2001 occurred at a depth of approximately 63 ft bgs. Observations also indicated that the depths of the perforation intervals matched those reported in the original driller's log. However, a majority of the perforations appeared to be completely clogged or had not been originally placed (cut) through the walls of the casing during its construction. In addition, the casing generally appeared to be clear of encrusting material and the casing joints in the well were easily seen at four-foot depth intervals. Further, the casing walls of the well appeared to be "dimpled" throughout the entire well depth. Sediment fill was encountered near the bottom of the well at a depth of approximately 552 ft bgs. This amounts to a sediment fill thickness of approximately 48 ft.

#### 3. Bailing and Sampling of Sediment Fill

The sediment fill that had been observed to occur in the bottom of the well was removed by bailing. This bailing also permitted the collection of a sediment sample which could then be submitted to a laboratory for analysis of Workplan-specified analytes. The objective of



the sampling and analysis was to determine how to dispose of the sediment fill. The bailed sediment fill was placed in a Visquine-lined excavation for temporary storage.

Bailing consisted of lowering a 10-inch-diameter metal bailer equipped with a single bottom end flap to the bottom of the well to capture and lift the collected sediment fill to the surface. After the bailer had been lowered to the bottom of the well, it was repeatedly lowered and raised in short increments to move sediment up into the bailer. The bailer was then brought to the surface with the contents being placed into the lined excavation.

Bailing of sediment in the well was conducted on April 16 and 17, 2001 and resulted in the removal of approximately 47 vertical feet of sediment from the bottom of the well. An RCS geologist was present during bailing of the sediment fill.

Following bailing, the depth of the well was measured by Beylik personnel and reported to RCS personnel to be at a depth of 599 ft bgs. The volume of sediment bailed was estimated to be approximately 1.8 cubic yards (yd³).

The sediment bailed from the bottom of the well generally consisted of a medium to dark gray, medium to coarse-grained sand. This material appeared to be native material.

A composite sediment sample of the bailed material was submitted to American Analytics Laboratory in Chatsworth, California, and analyzed for volatile organic compounds (VOCs, by EPA Method 8260), semi-volatile organic compounds (SVOCs, by EPA Method 8270), metals (including Chromium VI), and pH. Copies of the results of laboratory analyses for the sediment samples from the well are included in Appendix 4.

Results of laboratory analysis of the composite sediment sample revealed that VOCs and SVOCs were not detected in the sediment sample. However, the metals arsenic (As), Barium (Ba), Chromium (Cr), Copper (Cu), Nickel (Ni), Vanadium (V), and Zinc (Zn) were detected. Further, chromium VI was reportedly not detected in the sediment sample. The following table summarizes the results of the metals analyses listed together with their respective Total Threshold Limit Concentration (TTLC) and Soluble Threshold Limit Concentration (STLC) values.

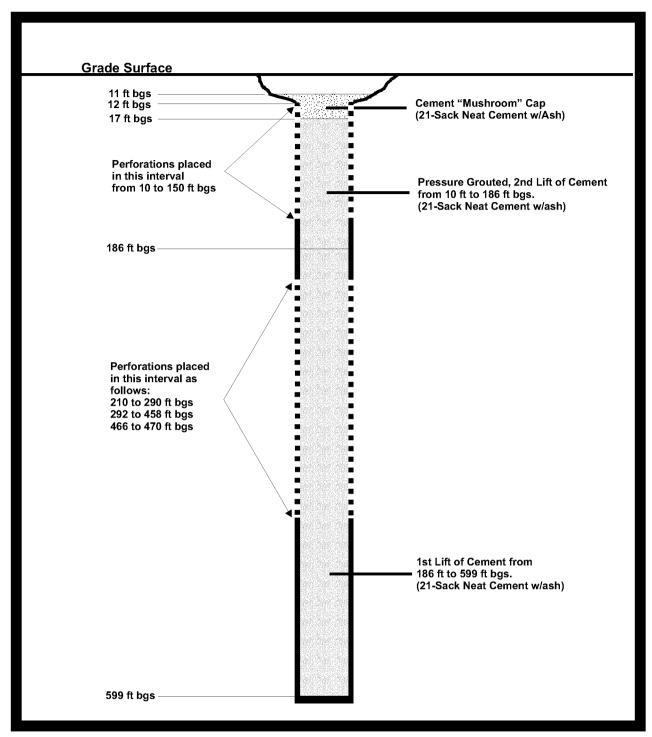


Detected Metal	Sample Result (mg/Kg)	TTLC Maximum Limit (mg/Kg)	STLC Maximum Limit (mg/l)
As	2.2	500	5.0
Ba	23	10,000	100
Cr (total)	11	2,500	5
Cu	59	2,500	25
Ni	18	2,000	20
V	11	2,400	24
Zn	14	5,000	250

Because the detected metal concentrations were not above their respective TTLC values, the soil is considered to be non-hazardous. Further, because the detected metal concentrations are not greater than 10 times their respective STLC values, then the Toxicity Characteristic Leaching Procedure did not need to be performed. Thus, based on the above laboratory data, the soil is considered to be non-hazardous and suitable for reuse onsite.

### 4. First Stage of New Casing Perforations

Cutting of additional perforations into the well casing was performed in two stages and was conducted as a preliminary step before emplacing the downwell cement seals required by the Workplan. The first stage of perforating consisted of adding new perforations below a depth of approximately 210 ft bgs. A single-tooth Mills knife mechanical perforator was used to perforate the casing. Perforations consisted of 8 cuts per row, with each row being approximately one foot apart. Figure 3 –Well No. 1 Destruction Schematic –diagrammatically illustrates the perforation depths in the lower portion of the well, below 150 ft bgs.



Not to Scale Some Features Exaggerated for Display Purposes

RICHARD C. SLADE & ASSOCIATES LLC CONSULTING GROUNDWATER GEOLOGISTS

FIGURE 3
WELL NO. 1 DESTRUCTION SCHEMATIC
BOEING REALTY COMPANY
FORMER C-6 FACILITY

RCS JOB NO. S2057

**JULY 2001** 



This first stage of new perforations was placed in the following depth intervals, in accordance with the Workplan:

Set	Depth Interval
Number	(ft bgs)
1	210 to 290
2	292 to 458
3	466 to 470

The first stage of cutting the new perforations was conducted between May 8 to 10, 2001. An RCS geologist was present onsite during the first stage of perforating. In addition, Mr. Michael Lui, Health Inspector for LACDHS, was also present during the initial stages on May 8 to witness a part of this perforating stage.

#### 5. Lower Cement Seal

On May 11, 2001, the sealing of the lower part of the well (below 150 ft bg) was performed, prior to conducting the second stage of casing perforating. The cement grout used consisted of a 21-sack neat cement mix grout with ash. Cement used for the seal was a standard brand Portland cement conforming to ASTM C150, Type II. The water-cement ratio was about 5 gallons of water per sack of cement (94 pounds). Mr. Lui, LACDHS inspector, and an RCS geologist were present to witness this initial cementing of the casing.

The cement grout was injected into the well casing beginning near the bottom of the well and then working upward by means of a temporary grout tremie pipe, in the bottom of which had been initially placed inside the well casing at a depth of 580 ft bgs. Cement grout materials were placed by a positive displacement method using pumping. During this process, water displaced by the cementing operation was directed, via pumping, into an onsite Baker Tank for later disposal by BRC. However, very little water was pumped from the well into the



Baker Tank, indicating that the majority of the water had been displaced outward from the well through the perforations during the grouting process.

A total of approximately 16 yd³ of neat cement were used to fill the lower portion of the casing below 150 ft. Following approximately two days of curing, the top of the cement was measured by Beylik personnel to be at a depth of approximately 186 ft bgs. In comparison, it was calculated that approximately 16.1 yd³ of cement would be needed to fill this interval. Thus, there is close agreement between the amount of cement used and the amount calculated to fill the interval. Copies of the cement delivery tickets are presented in Appendix 5. Figure 3 illustrates the lower cement seal.

#### 6. Second Stage of New Casing Perforations

The second stage of cutting new perforations in the well casing was performed between the depths of 10 ft and 150 ft bgs. The single-tooth Mills knife mechanical perforator used during the first stage of perforating was also used in this stage of perforating and, as in the first stage, perforations consisted of 8 cuts per row, with each row being approximately one foot apart. This second stage of cutting new perforations was conducted on May 14, 2001. During this stage, an RCS geologist was present onsite to observe contractor operations. Figure 3 illustrates the upper set of perforations above 150 ft bgs.

#### 7. <u>Installation (Pressure Grouting) of Upper Cement Seal</u>

On May 15, 2001, installation of an inflatable packer commenced. This packer was to be placed to a depth of 10 ft bgs, with 140 ft of temporary tremie pipe extending into the casing beneath the packer. However, during the final stages of the installation of the packer, the tremie pipe above the packer became separated and the packer assembly and tremie pipe were lost downhole. After a few hours of trying to retrieve the packer, Beylik personnel left the site to obtain additional tools to help retrieve the packer.



On May 16, 2001, pressure grouting of the upper part of the well between the depths of 10 ft and 186 ft bgs was performed by Beylik personnel. However, because Beylik personnel did not notify either RCS or LACDHS personnel that the inflatable packer had been retrieved or when the cement was to be delivered, RCS and LACDHS personnel were not present to witness the pressure grouting activities. Beylik personnel confirmed that the packer and tremie pipe were retrieved on May 16, 2001.

Based on the cement delivery tickets presented to RCS, the cement grout used for the second stage of sealing consisted of a 21-sack neat cement mix grout with ash. Cement used for the seal was a standard brand Portland cement conforming to ASTM C150, Type II. The water-cement ratio was about 5 gallons of water per sack of cement (94 pounds).

A total of 8 yd³ of neat cement were reportedly used to fill the upper portion of the casing between 10 ft and 186 ft bgs. However, it was later reported that the cement was actually measured at a depth of 17 ft bgs. Based on that measurement, it was calculated that approximately 6½ yd³ of cement was needed to fill this interval. Thus, approximately 1½ yd³ of cement appeared to have seeped outward from the well through the perforations. A copy of the cement delivery ticket for the 10 to 186-foot interval is presented in Appendix 5. Figure 3 illustrates the upper cement seal.

# 8. <u>Installation of Mushroom Cap</u>

On May 17, 2001, the area around the top of the well casing was excavated using a backhoe to a depth of approximately 12 ft bgs. The exposed casing was cut off at a depth of approximately 12 ft bgs and the cement mushroom cap was installed up to a depth of approximately 11 ft bgs. Approximately 4 yd³ of a 21-sack neat cement grout (with ash) were used in the installation of the mushroom cap on the well. A copy of the cement delivery ticket is included in Appendix 5. Figure 3 diagrammatically illustrates the cement mushroom cap above the well.

LACDHS and RCS personnel were present to observe emplacement of the mushroom cap. After the mushroom cap was set, personnel from LACDHS, Beylik, and RCS



left the site. At the request of Mr. Richard Farson of Haley Aldrich, BRC's representative at the time onsite, the excavation was left open for later backfilling and compaction by the grading contractor.

# Closure

The following summarizes destruction operations for former water supply Well No. 1 at the former BRC C-6 Facility:

- A. An inert polymer additive (Barafloc) was applied to the water in the well to improve water clarity for a video survey in the well.
- B. Observation of the video survey revealed a static water level on April 6, 2001 in the well occurred at a depth of approximately 63 ft bgs. Sediment fill was encountered in the well at a depth of approximately 552 ft bgs. Generally, the well casing appeared to be relatively free of any encrusting material or scale/biofilm, and perforations in the casing were generally clogged or appeared not to have been installed through the wall of the casing during well construction.
- C. Laboratory analyses of a sample of sediment from near the bottom of the well indicated that the sediment is considered to be native earth materials and are deemed to be non-hazardous. The material was reused onsite by BRC.
- Due to the clogged to partially clogged condition of the perforations in the well, a single-tooth mechanical casing perforator tool was used to place additional perforations in the well. Additional perforations were placed between the depths of 10 ft and 150 ft bgs, 210 ft to 290 ft bgs, 292 ft and 458 ft bgs, and 466 ft to 470 ft bgs. These perforations were placed in two stages with cementing of the lower portion of the well being performed between each stage.
- E. Following the first stage of additional perforations, the initial stage of cement sealing was performed. In this initial stage of cement sealing, neat cement grout was placed between a depth of 186 ft and 599 ft bgs; a total of 16 yd³ of cement was used in this stage of cementing.



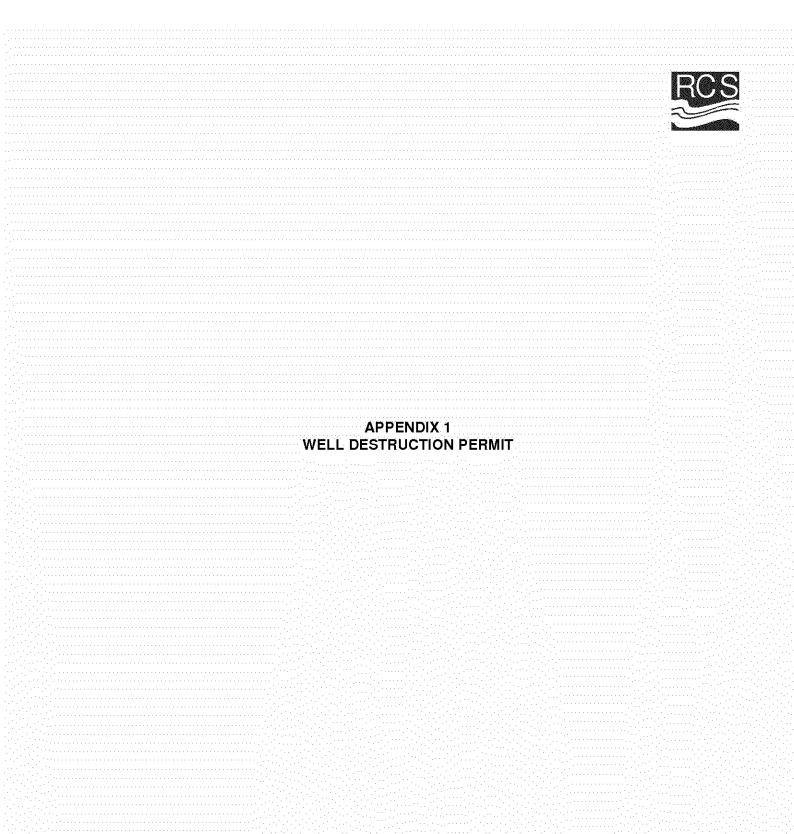
- F. After the first stage of grouting in the well, additional perforations were installed in the well casing. This second stage of new perforations was placed between a depth of 10 ft and 150 ft bgs.
- G. A second lift of grout was then placed after the additional perforations had been cut into the casing. The remaining well casing was pressure grouted during this second cement stage from a depth of 186 ft up to 10 ft bgs. Approximately 8 yd³ of cement were used to pressure grout the well between these depths.
- H. The final phase of well destruction involved the placement of the mushroom cap. The area around the top of the well casing was excavated to a depth ranging from 6 to 7 ft. Following this, the exposed well casing was cut off to a depth of approximately 6 ft bgs, and 4 yd³ of cement grout were used to fill the remaining well casing to a height of approximately one-foot above the top of the well. After installation of this mushroom cap, the small excavation was backfilled, thereby completing the destruction of Well No. 1.

The above-described procedures were conducted in accordance with the Site Workplan and in accordance with DWR Bulletin 75-81 and its Draft Supplement Bulletin 74-90 guidelines. As a result, destruction of the well has been completed and project closure has been achieved. The attachments and appendices complete this report.

Respectfully submitted RICHARD C. SLADE & ASSOCIATES

Earl F. LaPensee Certified Hydrogeologist No. 134

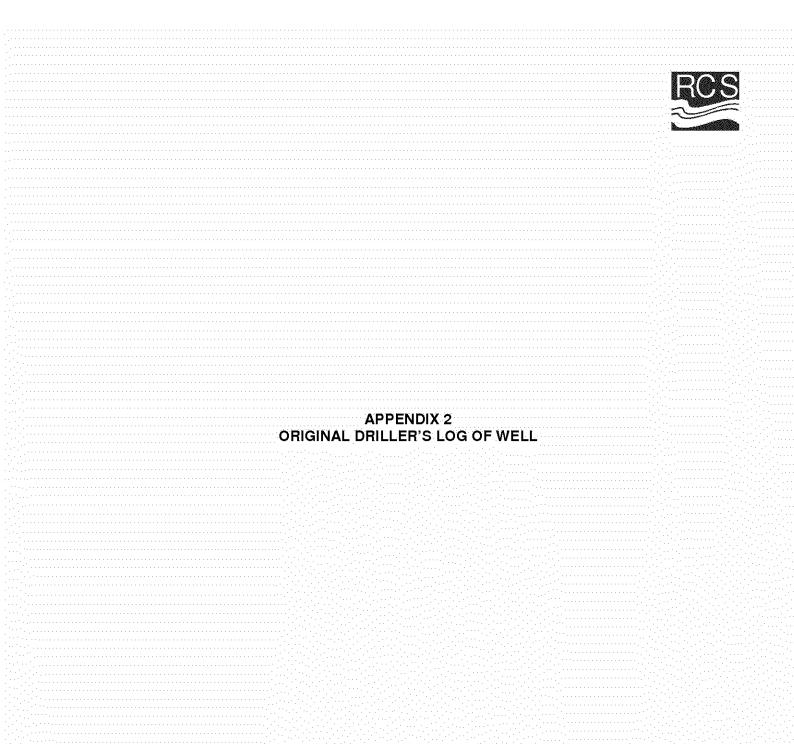
Richard C. Slade Certified Engineering Geologist No. 939



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# Water Well Redevelopers, Inc.

PHONE: (714) 632-7003 (800) 213-5095

Boeing Corporation

2881 BLUE STAR STREET ANAHEIM, CALIFORNIA 92806 FAX: (714) 632-7306 http://www.sonar-jet.com

# VIDEOLOG FIELD REPORT

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METT HE	STORY						
GASING:	14°-0' to 600' Stovepipe			PERFORATION	8:	472' - :	<i>511'</i>
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		(Por Drillor's	Log)	-		Per Videolog (1	DC) 04-06-01)
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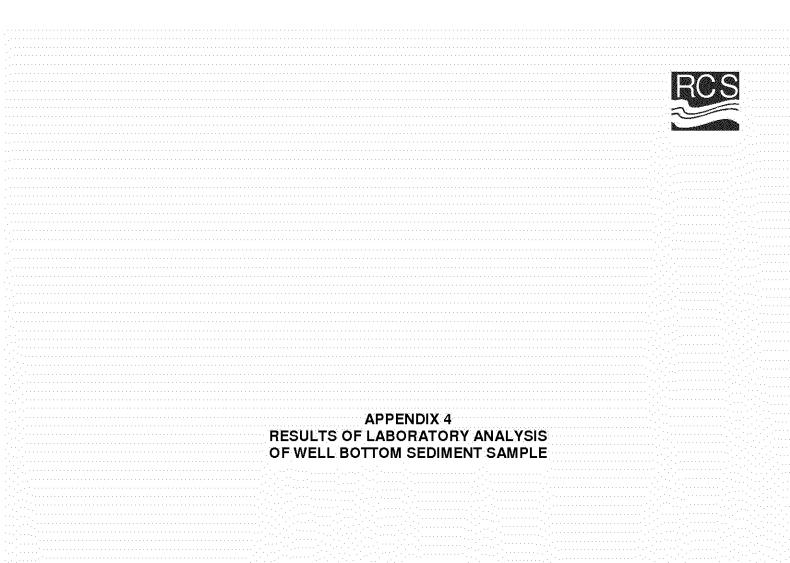
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Originators of SONAR-JET

VISIDLE







Page

Client: Richard C. Slade & Assoc.

Project No.: 52057

Project Name: Boeing Well No.1

Sample Matrix: Soil

Method: EPA 9045 (pH Measurement)

AA Project No.: A44203 Date Received: 04/17/01 Date Reported: 04/18/01

Units: pH

AA I.D. No.	Cilent I.D. No.	Date Sampled	Date Analyzed	Results	MRL
119469	Well No.1	04/16/01	04/17/01	7.07	0.01

MRL: Method Reporting Limit

George Havalias Laboratory Director



Page 1

Client: Richard C. Slade & Assoc.

Project No.: 52057

Project Name: Boeing Well No.1

Sample Matrix: Soil Method: CAM Metals AA Project No.: A44203 Date Received: 04/17/01 Date Reported: 04/24/01

Units: mg/Kg

Date Sampled:	04/16/01	
Date Analyzed: AA ID No.: Client ID No.:	04/20/01 119469 Well No.1	MRL
Compounds:		
Antimony	<10	10
Arsenic	2.2	0,5
Barium	23	10
Beryllium	<1	1
Cadmium	<1	1
Chromium	11	<b>3</b>
Cobalt	<3	3
Copper	59	3
Lead	<3	3
Mercury	<0.05	0.05
Molybdenum	<5	5
Nickel	18	3
Selenium	<0.5	0.5
Silver	<1	1
Thallium	<5	. 5
Vanadium	11	10
Zinc	14	3

MRL: Method Reporting Limit

George Havalina Laboratory Director



# LABORATORY QA/QC REPORT

Page 1

Client: Richard C, Slade & Assoc. Project Name: Boeing Well No.1

Method: CAM Metals Sample ID: Matrix Spike Concentration: 50 mg/Kg AA ID No.: 119469 Project No.: 52057 AA Project No.: A44203 Date Analyzed: 04/20/01 Date Reported: 04/25/01

Compounds	Result (mg/Kg)	Spike Recovery (%)	Dup. Result (mg/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Red Range (%)
Antimony	28,9	58	29.2	58	0	20 - 120
Arsenic	39.9	80	39.8	80	0	50 - 150
Barium	49.8	100	51.3	103	3	50 - 150
Beryllium	48.7	97	45.0	90	7	50 - 150
Cadmium	33.8	68	35.6	71	4	50 - 150
Chromium	45.7	91	49.6	99	8	50 - 150
Cobalt	45.0	90	47.6	95	5	50 - 150
Copper	81.0	162	78.0	156	4	50 - 150
Lead	46.9	94	47.0	94	0	50 - 150
Mercury	47.1	94	45.9	92	2	50 - 150
Molybdenum	60.0	120	50.0	100	18	50 - 150
Nickel	47.3	95	50.5	101	6	50 - 150
Selenium	42.0	84	41.1	82	2	50 - 150
Silver	48.6	97	48.5	97	0	50 - 150
Thallium	45.8	92	45.0	90	2	50 - 150
Vanadium	47.8	96	44.0	88	9	50 - 150
Zinc	43.6	87	45.2	90	3	50 - 150

George Havalias Laboratory Director



Page

Client: Richard C. Slade & Assoc.

Project No.: 52057

Project Name: Boeing Well No.1

Sample Matrix: Soil

Method: EPA 7196 (Hexavalent Cr)

AA Project No.: A44203 Date Received: 04/17/01 Date Reported: 04/18/01

Units: mg/Kg

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
119469	Well No.1	04/16/01	04/17/01	<0.5	0.5

MRL: Method Reporting Limit

George Havalias



# LABORATORY QA/QC REPORT

Page 1

Client: Richard C. Slade & Assoc.

Project Name: Boeing Well No.1

Method: EPA 7196 (Hexavalent Cr)

Sample ID: Matrix Spike Concentration: 0.2 mg/Kg AA ID No.: 119469 Project No.: 52057 AA Project No.: A44203 Date Analyzed: 04/17/01 Date Reported: 04/18/01

Compounds	Result (mg/Kg)	Spike Recovery (%)	Dup. Result (mg/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec Range (%)
Chromium(Hex)	0.197	99.0	0.19	95.0	4.1	50 - 150

George Havales Laboratory Director

BOE-C6-0000072



Page 1

Client: Richard C. Slade & Assoc.

Project No.: 52057

Project Name: Boeing Well No.1

Sample Matrix: Soil Method: EPA 8260B AA Project No.: A44203 Date Received: 04/17/01 Date Reported: 04/23/01

Units: ug/Kg

Date Sampled:	)4/16/01	
Date Analyzed: AA ID No.: Cilent ID No.:	04/20/01 119469 /eil No.1	MRI
Compounds:		
Acetone	<50	50
Benzene	<2	2.
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2-Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5 ,	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2-Chlorotoluene	<b>&lt;5</b> /	5
4-Chlorotoluene	<5	5
1,2-Dibromo-3-chloropropane	<10	10
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	
1,2-Dichlorobenzene	<5	5
1,3-Dichlorobenzene	<5	5
1,4-Dichlorobenzene	<b>&lt;5</b> .	5
Dichlorodifluoromethane	<5	5

George Havailas

Laboratory Director

BOE-C6-0000073



Page 2

Client: Richard C. Slade & Assoc.

Project No.: 52057

Project Name: Boeing Well No.1

Sample Matrix; Soil Method: EPA 8260B AA Project No.: A44203 Date Received: 04/17/01 Date Reported: 04/23/01

Units: ug/Kg

Date Sampled:	04/16/01	
Date Analyzed:	04/20/01	
AA ID No.: Client ID No.:	119469 Well No.1	MRI
Compounds:		
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<5	5.
1,2-Dichloroethene-(cis)	<5	5
1,2-Dichloroethene-(trans)	<5	5
1,1-Dichloroethene	<5	5
1,2-Dichloropropane	<5	5
1,3-Dichloropropane	<5	5
2,2-Dichloropropane	<5	5
1,3-Dichloropropene-(cis)	<5	5
1,3-Dichloropropene-(trans)	<5	5
1,1-Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2-Hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl tert-Butyl Ether	<5	5
4-Methyl-2-pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2-Tetrachloroethane	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Tetrachloroethene	<5	5

George Havalian
Laboratory Director



Page 3

Client: Richard C. Slade & Assoc.

Project No.: 52057

Project Name: Boeing Well No.1

Sample Matrix: Soil Method: EPA 8260B AA Project No.: A44203 Date Received: 04/17/01 Date Reported: 04/23/01

Units: ug/Kg

Date Sampled:	04/16/01	
Date Analyzed: AA ID No.: Client ID No.:	04/20/01 119469 Well No.1	MRI
Compounds:		
Toluene	<2	2
1,2,3-Trichlorobenzene	<5	5-
1,2,4-Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5
1,1,2-Trichloroethane	<5	5
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p-Xylenes	<2	2
o-Xylene	<2	2
sec-Butylbenzene	<5	5
tert-Butylbenzene	<b>&lt;</b> 5	5

MRL: Method Reporting Limit

George Havalies
Laboratory Director



# **LABORATORY QA/QC REPORT**

Page 1

Client: Richard C. Slade & Assoc. Project Name: Boeing Well No.1

Method: EPA 8260B Sample ID: Matrix Spike Concentration: 40 ug/Kg AA ID No.: 119607 Project No.: 52057 AA Project No.: A44203 Date Analyzed: 04/20/01 Date Reported: 04/23/01

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup. Result (ug/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec Range (%)
Bromoform	32.22	81	36.10	90	11	45 - 169
Chlorobenzene	36.12	90	37.44	94	4	37 - 160
Chloroform	38.48	96	40.56	101	5	51 - 138
1,1-Dichloroethane	38.84	97	40.96	102	5	54 - 155
1,1-Dichloroethene	37.46	94	40.26	101	7	2 - 234
Isopropylbenzene	39.70	99	39.28	98	1	50 - 150
Propylbenzene	39.04	98	37.86	95	3	50 - 150
Tetrachloroethene	36.24	91	37.12	93	2	64 - 148
Toluene	36.08	90	36.38	91	1	47 - 150
1,3,5-Trimethylbenzene	38.56	96	38.42	96	0	50 - 150
Vinyl chloride	39.06	98	40.22	101	3	2 - 251

George Havaliss
Laboratory Director

BOE-C6-0000076



Page 1

Client: Richard C. Slade & Assoc.

Project No.: 52057

Project Name: Boeing Well No.1

Sample Matrix: Soil Method: EPA 8270 AA Project No.: A44203 Date Received: 04/17/01 Date Reported: 04/19/01

Units: mg/Kg

Date Sampled:	04/16/01	
Date Analyzed: Date Extracted: AA ID No.: Client ID No.:	04/18/01 04/17/01 119469 Well No.1	MRL
Compounds:	· · · · · · · · · · · · · · · · · · ·	
Acenaphthene	< 0.1	0.1
Acenaphthylene	<0.1	0.1
Aniline	< 0.2	0.2
Anthracene	<0.1	0.1
Azobenzene	< 0.1	0.1
Benzidine	< 0.4	0.4
Benzo(a)anthracene	< 0.1	0.1
Benzo(a)pyrene	<0.1	0.1
Benzo(b)fluoranthene	<0.1	0.1
Benzo(g,h,i)perylene	<0.1	0.1
Benzo(k)fluoranthene	<0.1	0.1
Benzoic acid	<1	1
Benzyl Alcohol	<0.1	0.1
Bis(2-chloroethoxy)methane	<0.1	0.1
Bis(2-chloroethyl)ether	<0.1	0.1
Bis(2-chloroisopropyl)ether	<0.1	0.1
Bis(2-ethylhexyl)phthalate	<0.2	0.2
4-Bromophenyl phenyl ethe	<0.1	0.1
Butyl benzyl phthalate	<0.5	0.5
4-Chloro-3-methylphenol	<0.2	0.2
4-Chloroaniline	<0.4	0.4
2-Chloronaphthalene	<0.1	0.1
2-Chlorophenol	< 0.1	0.1
4-Chlorophenyl phenyl ethe	<0.1	0.1
Chrysene	<0.1	0.1

George Havalias
Laboratory Director

American Analulias a 0715 FL



Page 2

Client: Richard C. Slade & Assoc.

Project No.: 52057

Project Name: Boeing Well No.1

Sample Matrix: Soil Method: EPA 8270 AA Project No.: A44203 Date Received: 04/17/01 Date Reported: 04/19/01

Units: mg/Kg

Date Sampled:	4/16/01	
Date Extracted: AA ID No.:	94/18/01 94/17/01   19469   Jeli No.1	MRL
Compounds:		
Di-n-butyl phthalate	<2	. 2
Di-n-octyl phthalate	<0.1	σ.1
Dibenzo(a,h)anthracene	<0.1	0.1
Dibenzofuran	< 0.1	0.1
1,2-Dichlorobenzene	< 0.1	0.1
1,3-Dichlorobenzene	< 0.1	0.1
1,4-Dichlorobenzene	<0.1	0.1
3,3'-Dichlorobenzidine	<0.4	0.4
2,4-Dichlorophenol	<0.1	0.1
Diethylphthalate	< 0.8	0.8
2,4-Dimethylphenol	<0.1	0.1
Dimethylphthalate	< 0.2	0.2
2,4-Dinitrophenol	<0.4	0.4
2,4-Dinitrotoluene	< 0.1	0.1
2,6-Dinitrotoluene	<0.1	0.1
Fluoranthene	<0.1	0.1
Fluorene	<0.1	0.1
Hexachlorobenzene	<0.1	0.1
Hexachlorobutadiene	<0.1	0.1
Hexachlorocyclopentadiene	<0.1	0.1
Hexachloroethane	< 0.1	0.1
Indeno(1,2,3-cd)pyrene	<0.4	0.4
Isophorone	<0.1	0.1
2-Methyl-4,6-dinitrophenol	< 0.2	0.2
2-Methylnaphthalene	<0.1	0.1

George Havailag Laboratory Director



Page 3

Client: Richard C. Slade & Assoc.

Project No.: 52057

Project Name: Boeing Well No.1

Sample Matrix: Soil Method: EPA 8270 AA Project No.: A44203 Date Received: 04/17/01 Date Reported: 04/19/01

Units: mg/Kg

Date Sampled:	04/16/01	
Date Analyzed: Date Extracted: AA ID No.: Client ID No.:	04/18/01 04/17/01 119469 Well No.1	MRL
Compounds:		
2-Methylphenoi	<0.2	0.2
4-Methylphenol	<0.2	0.2
N-Nitrosodi-n-propylamine	<0.1	0.1
N-Nitrosodimethylamine	<0.1	0.1
N-Nitrosodiphenylamine	<0.1	0.1
Naphthalene	<0.1	0.1
2-Nitroaniline	<0.1	0.1
3-Nitroaniline	< 0.4	0.4
4-Nitroaniline	<0.2	0.2
Nitrobenzene	< 0.1	0.1
2-Nitrophenol	<0.2	0.2
4-Nitrophenol	<0.2	0.2
Pentachlorophenol	< 0.1	0.1
Phenanthrene	<0.1	0.1
Phenol	<0.1	0.1
Pyrene	<0.1	0.1
1,2,4-Trichlorobenzene	<0.1	0.1
2,4,5-Trichlorophenol	< 0.2	0.2
2,4,6-Trichlorophenol	<0.2	0.2

MRL: Method Reporting Limit

George Havalias Laboratory Director



# LABORATORY QA/QC REPORT

Page 1

Client: Richard C. Slade & Assoc. Project Name: Boeing Well No.1

Method: EPA 8270 Sample ID: Matrix Spike Concentration: 50 ug/Kg AA ID No.: 119426 Project No.: 52057 AA Project No.: A44203 Date Analyzed: 04/18/01 Date Reported: 04/24/01

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup. Result (ug/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec Range (%)
Acenaphthene	34.67	69	31.78	64	8	47 - 145
4-Chloro-3-methylphenol	31.64	63	33,13	66	5	22 - 147
2-Chlorophenol	28.42	57	28.81	58	2	23 - 134
1,4-Dichlorobenzene	22.90	46	19.84	40	14	20 - 124
2,4-Dinitrotoluene	41.06	82	37.66	75	9	39 - 139
N-Nitrosodi-n-propylamine	21.45	43	20.17	40	7	5 - 230
4-Nitrophenol	26.16	52	24.72	49	6	5 - 132
Pentachlorophenol	27.70	55	24.60	49	12	14 - 176
Phenol	19.05	38	21.00	42	10	5 - 112
Pyrene	44.00	- 88	42.00	84	5	25 - 115
1,2,4-Trichlorobanzene	26.03	52	25.92	52	0	44 - 142

George Havailes Laboratory Director

BOE-C6-0000080



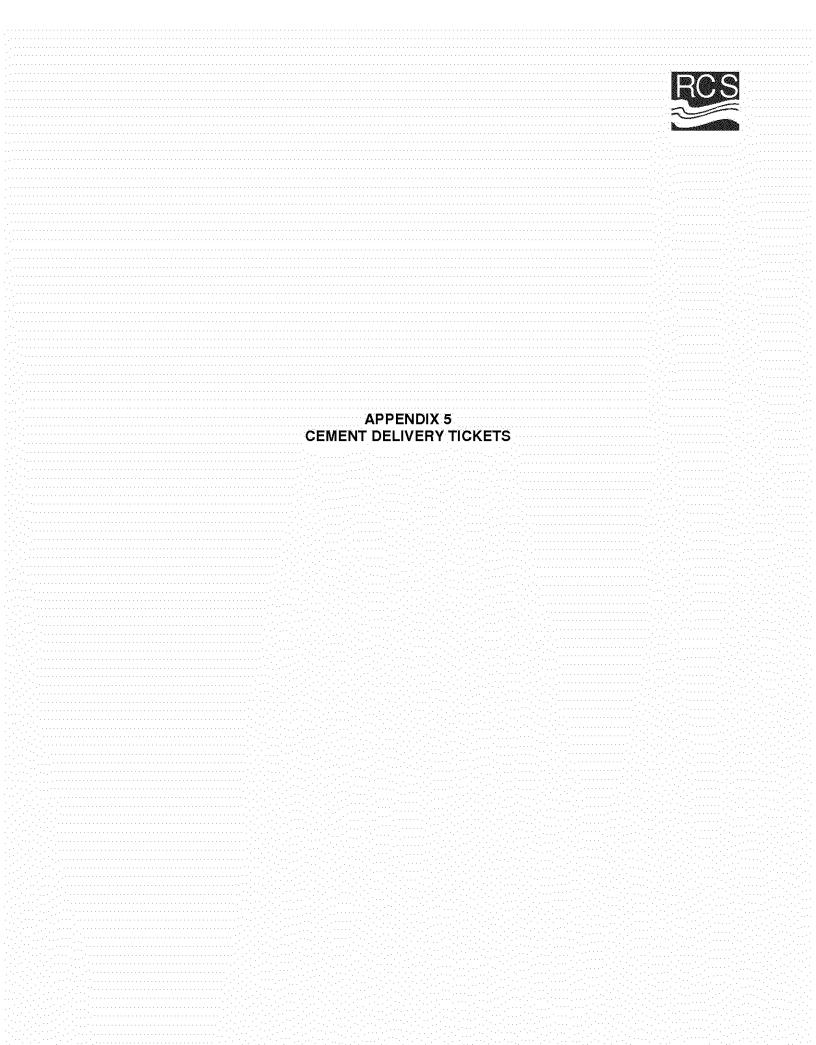
# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE, CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

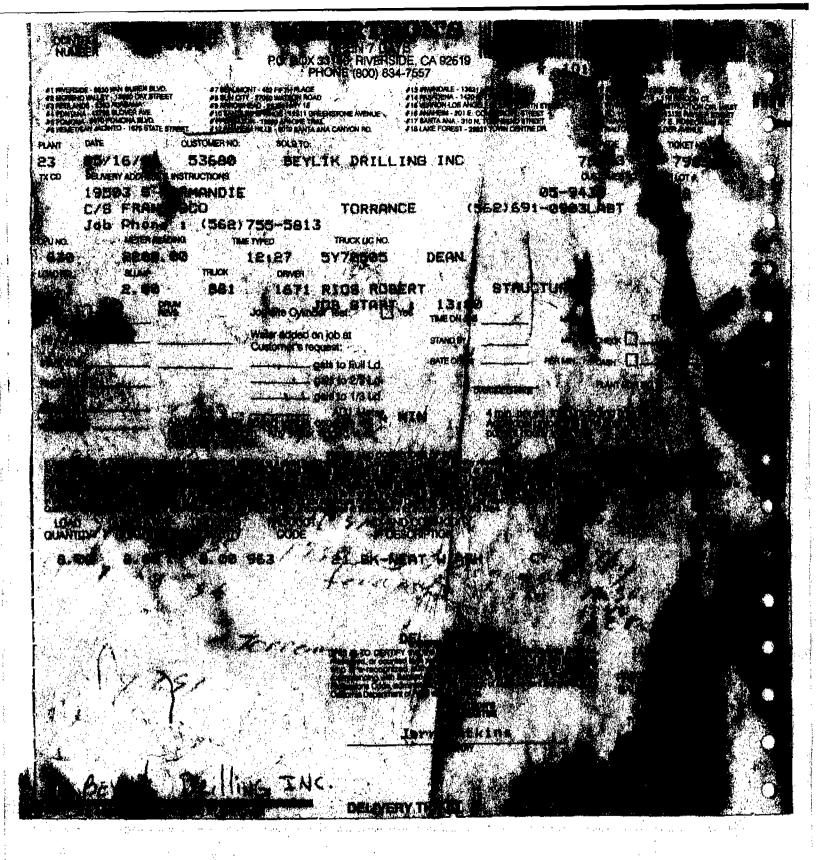
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CONTROL NUMBER

186 FOOT TO 599 FOOT CEMENT SEAL TICKET

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186 FOOT TO 599 FOOT CEMENT SEAL TICKET